

September 5, 2017

#5E26084-BG4

NMOCD District II Mike Bratcher 811 S. First St. Artesia, NM 88210

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE INCIDENT AT THE PRESTON BATTERY RELEASE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher,

On behalf of Lucid Energy Group (Lucid), Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, initial delineation and remediation for a release associated with the Preston Battery Release. The site is in UNIT L, SECTION 35, TOWNSHIP 20S, RANGE 24E, NMPM, Eddy County, New Mexico, on State land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

Table 1: Rele	ease information and Site Ranking					
Name	Preston Battery					
Company	Lucid Energy Group					
RP Number	2RP-4356					
API Number	fAB1724026582					
Location	32.526772°, -104.564768°					
Estimated Date of Release	8/10/2017					
Date Reported to NMOCD	8/23/2017					
Land Owner	Federal					
Reported To	Crystal Weaver					
Source of Release	Pipeline					
Released Material	Natural Gas					
Released Volume	Unknown					
Recovered Volume	0					
Net Release	Unknown					
Nearest Waterway	1.7 Miles from South Seven Rivers					
Depth to Groundwater	Estimated to be greater than 100'					
Nearest Domestic Water Source	Greater than 1,000 feet					
NMOCD Ranking	0					
SMA Response Dates	Initial: 8/16/2017					

# 1.0 Background

A pipeline leak occurred along the buried pipeline located south of the Preston Battery. The pipeline was excavated for repair and all potentially impacted soils were stock piled on location. Sample BH-6 represents the bottom hole of this excavation and was positioned directly beneath the release point. SW1 and SW2 are composite sidewall samples that were closest to the release point. Sample Point SP is a 5-point composite of the spill pile. The impacted area is approximately 25 feet long by 8 feet wide.

# 2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 10 miles east of Brantley Lake, with an elevation of approximately 3,692 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. Nine wells are located within a three-mile radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
ТРН	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	
50' to 99' = 10	
>100' = 0	0
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	0
Total Site Ranking	0

# 3.0 Release Characterization

On August 16, 2017 after receiving 811 clearance, SMA field personnel assessed the release area. Soil samples were field-screened using an EC meter. Samples were collected to characterize and delineate the release. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015D. Sample locations are depicted on Figure 2. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

The excavated area, which was approximately 6 feet deep, was investigated with a finite sample, represented by sample BH-6. Side wall samples were also collected from the excavation (SW1 and SW2). Soil samples BH-6 and SP were screened for possible chloride impact, with results indicating low levels of chlorides. Soil contaminant concentrations are illustrated in Figure 2.

# 4.0 Soil Remediation Summary

On August 30, 2017, SMA received permission to backfill the location from both NMOCD and BLM representatives. All samples were below RRAL's as set by NMOCD and BLM. No further action is recommended at this time.

# 5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Justo Wernet

Reviewed by:

Austin Weyant Project Scientist Shawna Chubbuck Senior Scientist

hauna Chubbuck

## **ATTACHMENTS:**

# Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Site and Sample Location Map

## Tables:

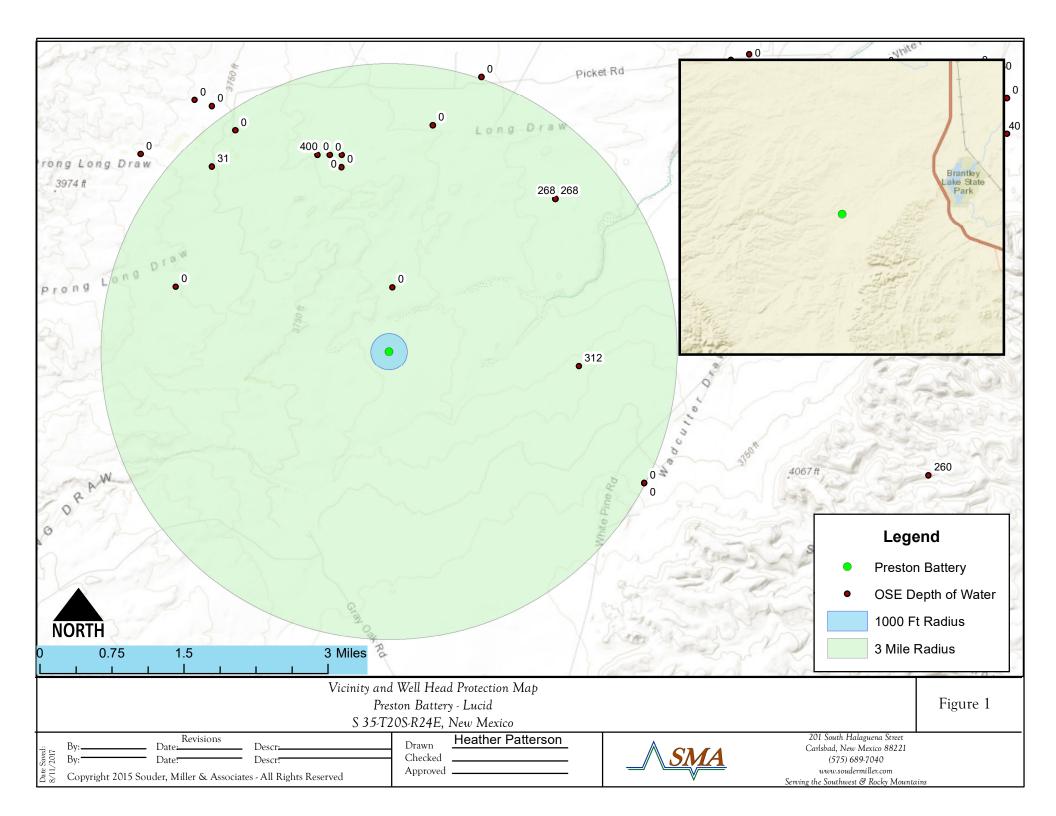
Table 3: Summary of Sample Results

# Appendices:

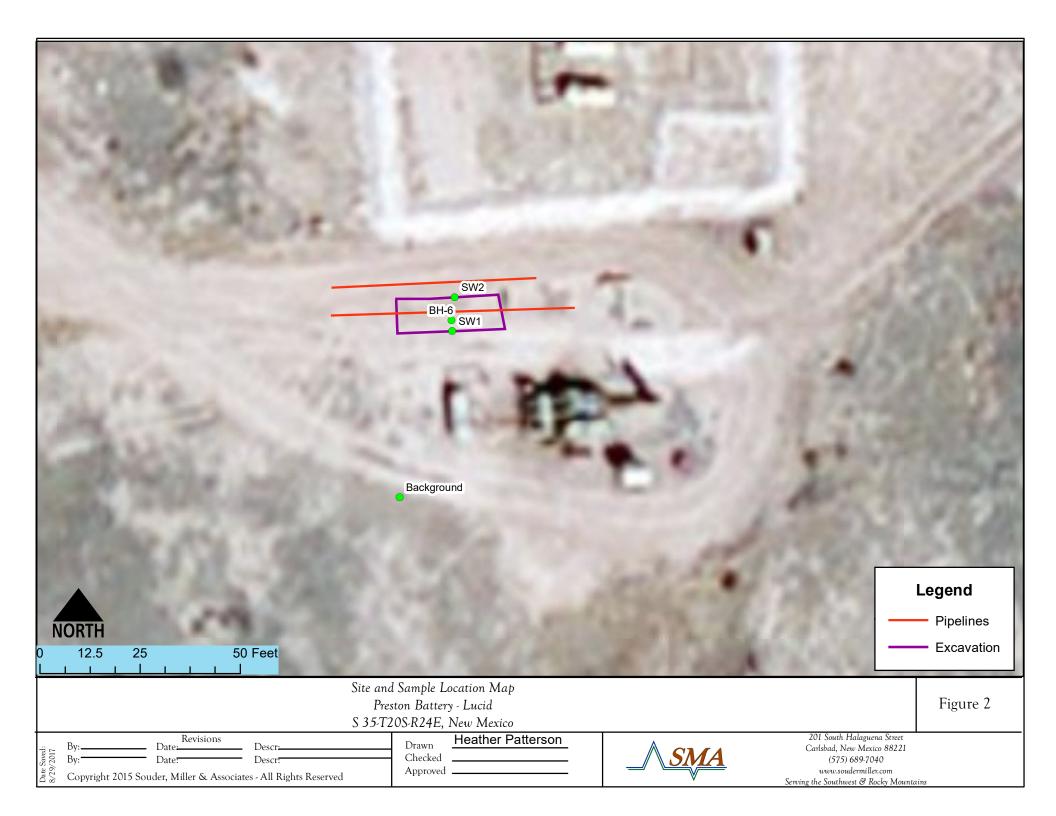
Appendix A: Form C141 Initial and Final Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

# FIGURE 1 VICINITY AND NMOSE DATA MAP



# FIGURE 2 SITE AND SAMPLE LOCATION MAP



# TABLE 3 SUMMARY SAMPLE RESULTS

# **Preston Battery**

Table 3.

Sample				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens (ppm)	Laboratory mg/Kg
1	NMOCD RRAL's f	or Site Ranking	0	50 mg/Kg	10 mg/Kg				5000 mg/Kg		
ВН	8/15/2017	6	in-situ	<0.097	<0.024	<4.9	<9.4	<47	<62	735	71
SW1	8/15/2017	composite	in-situ			<4.6	<9.2	<46	<62		52
SW2	8/15/2017	composite	in-situ			<4.9	<9.6	<48	<63	632	31
BG	8/15/2017	0.5	in-situ							<132	
SP	8/15/2017	composite	in-situ	<0.094	<0.024	<4.7	<9.8	<49	<64	963	60

<sup>&</sup>quot;--" = Not Analyzed

# APPENDIX A FORM C141 INITIAL AND FINAL

### NM OIL CONSERVATION ARTESIA DISTRICT

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** 

AUG 2 3 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe NM 87505

Submit 1 Copy to appropriate District Office in RECEIVED accordance with 19.15.29 NMAC.

				30	illia I c	5, INIVI 073	UJ				
FABIT	24021	5582	Rele	ease Notific	ation	and Co	rrective A	ction			
nABI-	12402	4731				<b>OPERATOR</b> X				itial Report	Final Report
Name of Co	mpany: L	ucid Energy	· 37196	$\triangle$	Contact K	erry Egan					
Address 3	26 West C	Quay Artesia.			Telephone N	No. 575 513-89	988				
Facility Nar	ne: Presto	n Battery				Facility Typ	e: Pipeline RO	W			
Surface Ow	ner: BLM			Mineral C	)wner	<del></del>			API No		
<u> </u>	MOIT BEAT								111110	·	
LOCATION OF RELEASE											
Unit Letter	Section 35	Township 20S	Range 24E	Feet from the	North	South Line	Feet from the	East/W	est Line	County EDDY	
						° Longitude	e -104.564768° E <b>ASE</b>				
Type of Rele	ase: Natura	l Gas				Volume of	Release: Unknow	wn	Volume I	Recovered: None	
Source of Re	lease: Leak	ing flange in t	he line.			Date and H 8/10/2017	lour of Occurrence	ce:	Date and	Hour of Discover	ry: 8/10/2017
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required						If YES, To	Whom?				
By Whom?						Date and Hour					
Was a Water	course Read	ched?	Yes ⊠	] No		If YES, Vo	olume Impacting	the Wate	rcourse.		
If a Watercou	irse was Im	nacted Descr	ihe Fully	<del></del>			<del>,</del>		~~~~~		

Describe Cause of Problem and Remedial Action Taken.\* The source of the leak, was determined to be a steel gas line leaving the battery, and connecting to a 8" steel trunk line. Upon discovery the battery was shut in, and the leaking line was isolated to prevent further loss.

Describe Area Affected and Cleanup Action Taken.\*

Initial assessments show soil in an approximately a 15' radius to have been affected by the gas leak. There are no obvious signs of a release of liquids associated with this gas release. The line was excavated to identify the leak. All excavated material has been stockpiled on site. The excavation floor and sidewalls, along with the exfill pile have been sampled. A work plan will be prepared pending the sample results.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health

or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other									
federal, state, or local laws and/or regulations.									
OIL CONSERVATION DIVISION									
Signature:			ض	#1 v					
Printed Name: Kerry Egan		Approved by Environment Bespecialists Branches							
Title: Environmental Compliance	· Coordinator	Approval Date:	8/28/17	Expiration D	Pate: NIA				
E-mail Address: KEgan@lucid-e	nergy.com	Conditions of App	oroval:	. 1	Attached [7]				
Date:	Phone: 575 810-6021		See atta	ached'	Attached D				

Attach Additional Sheets If Necessary

www.emnrg.state.nm.us Current forms are available on our website and should be used when filing regulatory documents.

14\17 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 8/23/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 3RP-4356 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 9/23/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
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# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# **Release Notification and Corrective Action**

						OPEF	RATOR	Init	ial Report	X Final Repo			
Name of Co						Contact K							
Address 3	26 West Q	uay Artesia,	NM 882	10	,	Telephone N	No. 575 513-89	88					
Facility Nan	ne: Prestor	n Battery			]	Facility Typ	e: Pipeline ROV	V					
Surface Ow	non DIM			Mineral Ov	T. 122 O. 11				API No				
Surface Ow.	nei. BLivi			Willerar Ov	VIICI				AFTNO	•			
P						ON OF RELEASE							
Unit Letter	Section 35	Township 20S	Range 24E	Feet from the	North/	South Line	Feet from the	East/\	West Line	County EDDY			
<b>Latitude</b> 32.526772° <b>Longitude</b> -104.564768°													
	NATURE OF RELEASE												
T CD I	37	1.0		NATU	URE				T				
Type of Rele			1 1!				Release: Unknow			Recovered: No			
Source of Re	iease: Leak	ing flange in t	ne iine.			8/10/2017	Iour of Occurrenc	e:	Date and	Hour of Disco	very: 8/10/2017		
Was Immedia	ate Notice (	Given?				If YES, To	Whom?						
			Yes [	No Not Rec	quired	1 125, 10							
By Whom?						Date and H	Iour						
Was a Water	course Read	ched?					olume Impacting t	he Wat	ercourse.				
			Yes 🗵	No									
		pacted, Descr											
				n Taken.* The so							ry, and		
				ery the battery was	shut in	, and the leak	ing line was isola	ited to p	orevent furth	ner loss.			
		and Cleanup A		cen.™ y a 15' radius to ha	wa haa	n affacted by	the got look. The	ro oro n	o obrions s	ions of a ralas	ao of liquida		
associated wi	th this gas	release. The li	ne was ex	cavated to identify	the lea	k. All excava	ted material has b	een sto	ckniled on	site. The excav	ation floor and		
sidewalls, alc	ong with the	e exfill pile ha	ve been sa	mpled. A work pla	n will	be prepared p	ending the sample	e result	S.				
						N 42-12 12-2	2000 200	1000	10 10001001	10 W			
				n the excavation's							i below RRAL fo		
this site (give	en a site ran	king of 0). As	such Luc	id is requesting app	orovai t	o backiiii usi	ng the excavated	son, an	d close the	spiii.			
I hereby certi	fy that the	information gi	ven above	e is true and comple	ete to th	he best of my	knowledge and u	ndersta	and that purs	suant to NMO	CD rules and		
regulations a	ll operators	are required t	o report a	nd/or file certain re	lease n	otifications a	nd perform correc	tive ac	tions for rel	eases which m	ay endanger		
				ce of a C-141 repor									
				investigate and re									
		iddition, NMC ws and/or regi		otance of a C-141 re	eport d	oes not reliev	e the operator of	respons	sibility for c	ompliance wit	h any other		
rederal, state,	, or rocar ra	ws and/or regu	nations.				OII CON	SERI	/ΔΤΙΩΝ	DIVISION			
/		- (	_				OIL COIN	DLIC	7111011	DIVIDIOI	<u>*</u>		
Signature:	lovy	ler											
						Approved by	Environmental S	pecialis	st:				
Printed Name	ed Name: Kerry Egan												
Title: Enviro	onmental Co	ompliance Co	ordinator			Approval Date:			Expiration Date:				
E-mail Address: KEgan@lucid-energy.com						Conditions of Approval:			П				
Date: 8/30	)/2017		Phone	: 575 810-6021		Attached							
Date. Groc			1 Hone	. 3/3 010-0021									

<sup>\*</sup> Attach Additional Sheets If Necessary

# APPENDIX B NMOSE WELLS REPORT



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD	_	_	^							Danilla	Danilla	<b>W</b> -1
POD Number	Sub- Code basin County	-	Q 16	-	Sec	Tws	Rng	х	Υ	Distance	•	•	Water Column
RA 10140	ED	2	1	1	35	20S	24E	540938	3599981* 🌍	1075	295		
RA 05057	ED		3	3	31	20S	25E	544071	3598678*	3241	380	312	68
RA 07771	ED	4	1	4	22	20S	24E	540073	3602194* 🌕	3372			
RA 05424	ED	4	2	3	22	20S	24E	539669	3602194* 🌕	3485	1000	400	600
RA 04502	ED		2	2	25	20S	24E	543656	3601480*	3814	300	268	32
RA 04502 REPAR	ED		2	2	25	20S	24E	543656	3601480*	3814	275	268	7
RA 02775	СН	1	4	3	21	20S	24E	537899	3601986* 🎒	4254	140	31	109
RA 10139	ED	3	3	2	21	20S	24E	538285	3602597*	4484	308		
RA 04742	ED		3	3	13	20S	24E	542408	3603517* 🌍	4867	300		

Average Depth to Water: 255 feet

Minimum Depth: 31 feet

Maximum Depth: 400 feet

**Record Count: 9** 

UTMNAD83 Radius Search (in meters):

**Easting (X):** 540837.51 **Northing (Y):** 3598909.8 **Radius:** 5000

# APPENDIX C LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 28, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Preston OrderNo.: 1708B42

## Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1708B42**Date Reported: **8/28/2017** 

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH-6

 Project:
 Preston
 Collection Date: 8/16/2017 10:00:00 AM

 Lab ID:
 1708B42-001
 Matrix: SOIL
 Received Date: 8/18/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	71	30	mg/Kg	20	8/26/2017 12:34:02 AM	1 33563
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/23/2017 1:46:19 PM	33490
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/23/2017 1:46:19 PM	33490
Surr: DNOP	92.3	70-130	%Rec	1	8/23/2017 1:46:19 PM	33490
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/22/2017 11:31:28 AM	1 33464
Surr: BFB	84.1	54-150	%Rec	1	8/22/2017 11:31:28 AM	1 33464
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	8/22/2017 11:31:28 AM	1 33464
Toluene	ND	0.049	mg/Kg	1	8/22/2017 11:31:28 AM	1 33464
Ethylbenzene	ND	0.049	mg/Kg	1	8/22/2017 11:31:28 AM	1 33464
Xylenes, Total	ND	0.097	mg/Kg	1	8/22/2017 11:31:28 AM	1 33464
Surr: 4-Bromofluorobenzene	118	66.6-132	%Rec	1	8/22/2017 11:31:28 AM	1 33464

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 8
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1708B42**Date Reported: **8/28/2017**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

**Project:** Preston
 Collection Date: 8/16/2017 10:15:00 AM

 **Lab ID:** 1708B42-002
 Matrix: SOIL
 Received Date: 8/18/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	52	30	mg/Kg	20	8/26/2017 12:46:26 AM	A 33563
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/23/2017 2:52:57 PM	33490
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/23/2017 2:52:57 PM	33490
Surr: DNOP	89.7	70-130	%Rec	1	8/23/2017 2:52:57 PM	33490
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/22/2017 12:43:10 PM	A 33464
Surr: BFB	79.5	54-150	%Rec	1	8/22/2017 12:43:10 PM	A 33464

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1708B42**Date Reported: **8/28/2017**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

 Project:
 Preston
 Collection Date: 8/16/2017 10:30:00 AM

 Lab ID:
 1708B42-003
 Matrix: SOIL
 Received Date: 8/18/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	31	30	mg/Kg	20	8/26/2017 12:58:50 AM	1 33563
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	}			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/23/2017 3:15:03 PM	33490
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/23/2017 3:15:03 PM	33490
Surr: DNOP	99.1	70-130	%Rec	1	8/23/2017 3:15:03 PM	33490
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/22/2017 1:55:07 PM	33464
Surr: BFB	79.7	54-150	%Rec	1	8/22/2017 1:55:07 PM	33464

-				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
		Practical Quanitative Limit		Sample pH Not In Range Reporting Detection Limit

# Lab Order **1708B42**Date Reported: **8/28/2017**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SP1

**Project:** Preston
 Collection Date: 8/16/2017 11:00:00 AM

 **Lab ID:** 1708B42-004
 Matrix: SOIL
 Received Date: 8/18/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	60	30	mg/Kg	20	8/26/2017 1:11:15 AM	33563
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANIC	S			Analys	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/23/2017 3:37:34 PM	33490
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/23/2017 3:37:34 PM	33490
Surr: DNOP	94.5	70-130	%Rec	1	8/23/2017 3:37:34 PM	33490
EPA METHOD 8015D: GASOLINE RANG	Ε				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/22/2017 2:19:09 PM	33464
Surr: BFB	82.0	54-150	%Rec	1	8/22/2017 2:19:09 PM	33464
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	8/22/2017 2:19:09 PM	33464
Toluene	ND	0.047	mg/Kg	1	8/22/2017 2:19:09 PM	33464
Ethylbenzene	ND	0.047	mg/Kg	1	8/22/2017 2:19:09 PM	33464
Xylenes, Total	ND	0.094	mg/Kg	1	8/22/2017 2:19:09 PM	33464
Surr: 4-Bromofluorobenzene	118	66.6-132	%Rec	1	8/22/2017 2:19:09 PM	33464

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1708B42

28-Aug-17

Client: Souder, Miller & Associates

**Project:** Preston

Sample ID MB-33563 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **33563** RunNo: **45224** 

Prep Date: 8/25/2017 Analysis Date: 8/25/2017 SeqNo: 1433002 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-33563 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 33563 RunNo: 45224

Prep Date: 8/25/2017 Analysis Date: 8/25/2017 SeqNo: 1433003 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.3 90 110

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 8

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1708B42** 

28-Aug-17

Client: Souder, Miller & Associates

**Project:** Preston

Sample ID LCS-33490	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: <b>33</b>	490	F	RunNo: 4	5145				
Prep Date: 8/22/2017	Analysis D	ate: 8/	23/2017	5	SeqNo: 1	429395	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	73.2	114			
Surr: DNOP	4.7		5.000		94.9	70	130			
Sample ID MB-33490	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	1D: <b>33</b>	490	F	RunNo: 4	5145				
Prep Date: 8/22/2017	Analysis D	ate: 8/	23/2017	9	SeqNo: 1	429396	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.9	70	130			
Sample ID 1708B42-001AM\$	<b>S</b> SampT	ype: <b>M</b> \$	3	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BH-6	Batch	n ID: 33	490	F	RunNo: 4	5143				
Prep Date: 8/22/2017	Analysis D	ate: 8/	23/2017	5	SeqNo: 1	430255	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.4	47.04	3.719	100	55.8	122			
Surr: DNOP	4.4		4.704		93.4	70	130			

Sample ID 1700L	342-00 I ANIOD	Samp Type.	IVIOL	,	163	Code. Li	AWELIIOU	OU I SIVI/D. DIE	sei ivalige	- Organics	
Client ID: BH-6		Batch ID:	3349	90	R	tunNo: 4	5143				
Prep Date: 8/22	<b>/2017</b> A	nalysis Date:	8/23	3/2017	S	eqNo: 1	430256	Units: mg/K	g		
Analyte		Result PC	QL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO)	49	8.8	44.13	3.719	102	55.8	122	4.25	20	
Surr: DNOP		4.2		4.413		95.1	70	130	0	0	

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Page 6 of 8

W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1708B42** 

28-Aug-17

Client: Souder, Miller & Associates

**Project:** Preston

Sample ID MB-33464 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 33464 RunNo: 45126

Prep Date: 8/21/2017 Analysis Date: 8/22/2017 SeqNo: 1429028 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 900 1000 89.8 54 150

Sample ID LCS-33464 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 33464 RunNo: 45126

Prep Date: 8/21/2017 Analysis Date: 8/22/2017 SeqNo: 1429029 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 97.3
 76.4
 125

 Surr: BFB
 980
 1000
 98.4
 54
 150

Sample ID 1708B42-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW1** Batch ID: **33464** RunNo: **45126** 

Prep Date: 8/21/2017 Analysis Date: 8/22/2017 SeqNo: 1429032 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 23 23.28 101 77.8 128

Gasoline Range Organics (GRO) 23 4.7 23.28 0 101 77.8 128 Surr: BFB 850 931.1 91.6 54 150

Sample ID 1708B42-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW1** Batch ID: **33464** RunNo: **45126** 

Prep Date: 8/21/2017 Analysis Date: 8/22/2017 SeqNo: 1429033 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 4.8 24.18 107 77.8 128 9.57 20 Λ Surr: BFB 900 967.1 92.7 54 150 0 0

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

D. Committee and Not to Donner

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

Page 7 of 8

# Hall Environmental Analysis Laboratory, Inc.

1.3

3.9

1.1

0.093

WO#: 1708B42

28-Aug-17

**Client:** Souder, Miller & Associates

**Project:** Preston

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

Sample ID MB-33464 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 33464 RunNo: 45126

Analysis Date: 8/22/2017 Prep Date: 8/21/2017 SeqNo: 1429043 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 Benzene

ND Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.3 1.000 127 66.6 132

1.000

2.788

0.9294

Sample ID LCS-33464	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 334	464	F	RunNo: 4	5126				
Prep Date: 8/21/2017	Analysis Da	ate: <b>8/</b>	22/2017	S	SeqNo: 1	429044	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			

Sample ID 1708B42-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BH-6 Batch ID: 33464 RunNo: 45126 Prep Date: 8/21/2017 Analysis Date: 8/22/2017 SeqNo: 1429046 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.2 0.023 0.9294 0.01033 129 80.9 132 Toluene 1.2 0.046 0.9294 0 134 79.8 136 0.9294 Ethylbenzene 0.046 0 137 79.4 140 1.3

0.01657

Sample ID 1708B42-001AN	<b>ISD</b> SampT	ype: <b>M</b> \$	SD	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: BH-6	Batch	1D: 33	464	F	RunNo: 4	5126				
Prep Date: 8/21/2017	Analysis D	ate: 8/	22/2017	S	SeqNo: 1	429047	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.023	0.9174	0.01033	116	80.9	132	12.2	20	
Toluene	1.1	0.046	0.9174	0	119	79.8	136	13.0	20	
Ethylbenzene	1.1	0.046	0.9174	0	119	79.4	140	15.1	20	
Xylenes, Total	3.3	0.092	2.752	0.01657	120	78.5	142	15.0	20	
Surr: 4-Bromofluorobenzene	1.1		0.9174		120	66.6	132	0	0	

### Qualifiers:

Xylenes, Total

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

66.6

78.5

66.6

132

142

132

131

138

122

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Page 8 of 8



### Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Number:	1708B42		RcptNo:	1
Received By:	Sophia Campuzano	8/18/2017 9:15:00 AM		Sophie Buju-		
Completed By:	Ashley Gallegos	8/18/2017 11:36:41 AM	1	A		
Reviewed By:	SRC 08/18	117		U		
Chain of Cus	stod <u>y</u>					
1. Custody se	als intact on sample bottles?		Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was th	e sample delivered?		<u>Courier</u>			
<u>Log In</u>						
4. Was an att	empt made to cool the sample	s?	Yes 🗹	No 🗌	na 🗆	
5. Were all sa	mples received at a temperatu	are of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient sa	ample volume for indicated tes	t(s)?	Yes 🗹	No 🗆		
8. Are sample:	s (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗆		
9. Was preser	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials h	ave zero headspace?		Yes 🗌	No 🗆	No VOA Vials <b>⊻</b>	
11. Were any s	ample containers received bro	ken?	Yes	No 🗹	# of aroson and	
					# of preserved bottles checked	
	work match bottle labels? epancies on chain of custody)		Yes 🗹	No ∐	for pH: (<2 c	r >12 unless noted)
	s correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?	
14, Is it clear wi	nat analyses were requested?	•	Yes 🗹	No 🗆		
	ding times able to be met? customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
D., <i></i>	W					
	iling (if applicable)					
16, Was client r	notified of all discrepancies wit	h this order?	Yes 📙	No 📙	NA 🗹	7
	n Notified:	Date				
By Wi		Via:	_ eMail	Phone  Fax	In Person	
Regar	Control of the State of the Sta					
	Instructions:					j
17. Additional r	emarks:					
18. <u>Cooler Inf</u> o						
Cooler N			Seal Date	Signed By		
<u>[1</u>	1.0 Good Y	es				

Chain-of-Custody Record	Turn-Around Time:				-	Î	5	Ş	2	H	
Client, S.M.A.	Standard	□ Rush			N N	ZZ	7		A POP	AALL ENVIKONMENTAL ANALYSTS LABORATORY	. >
					www.h	www.hallenvironmental.com	nmen	tal.cor			
Mailing Address:	大窓台文		490	4901 Hawkins NE	ns NE	- Albuquerque, NM 87109	tnerqu	e, NM	87109		
	Project #:		Tel	Tel. 505-345-3975	5-397	Fa	Fax 505-345-4107	345-4	107		
Phone #:						Analysis Request	is Req	lnest			
email or Fax#:	Project Manager:			(0)							
QAVQC Package:   Standard   Level 4 (Full Validation)		12 aut		30 / WE	(SWIS		A STATE OF THE STATE OF T				
Accreditation	Sampler: HWp	15cm		0.000,000			8 e- 0 G : 10		()		(N)
(adv	Temper	70		2000		sls			/O/		o Y)
Date Time Matrix Sample Request ID		ative HEAL No.	тм + Хэта этм + Хэта	TPH (Methor	EDB (Metho	RCRA 8 Mei	Anions (편의	AOV) 80928	-imə2) 0728		səlddu8 ıiA
8/10/17 10am Sy. 15H-6	402	100-		×			×				
- MIN / NE	\	-002		<b>V</b>		^	~				
1030 \ SWZ	_	800-		4			文		- 30		
もかり一葉だり	Cance	100	4	1		4	1				
(11:00 SPI		, 40°		Х			X				
				+			+		+	-	-
											$\blacksquare$
											-
Date: Time: Relinquished by:	Received by:	8/17/17 08W	Remarks	\	,		F	١.			
S/(7/ )7 Do Sb h	Received by: Sayo L. Cor	Date Time	7	6 7	C 2	L DOT	9				
if necessary, samples Jubratited to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	ibconfracted to other accredited lat	poratories. This serves as notice of this	s possibility. A	ny sub-con	racted ds	ts will be d	early not	ated on t	he analytic	al report.	

COUNTER